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Heat sealable packaging laminate - consisting of film of polyamide from xylylenediamine and dicarboxylic acid coated with lower melting

Patent Assignee: TOYO BOSEKI KK (TOYM)

Number of Countries: 004 Number of Patents: 007

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|------|----------|
| DE 2165399 | A | | | | | 197231 B |
| US 3843479 | A | 19741022 | | | | 197444 |
| GB 1380918 | A | 19750115 | | | | 197503 |
| JP 75001156 | B | 19750116 | | | | 197507 |
| JP 75007099 | B | 19750320 | | | | 197516 |
| US 29340 | E | 19770802 | | | | 197732 |
| DE 2165399 | B | 19780518 | | | | 197821 |

Priority Applications (No Type Date): JP 70128181 A 19701229; JP 70128180 A 19701229

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|----------|--------------|
| DE 2165399 | A | 28 | | |

Abstract (Basic): DE 2165399 A

Laminated film with a gas permeability measured at 30 degrees C of ≤ 50 ml./m².24 hr.atm., consists of (I) a biaxially drawn support film of a polyamide contg. ≥ 70 mole-% units of m-xylylenediamine, opt. together with ≤ 30 mole-% p-xylylenediamine, and a 6-10 C alpha, omega - dicarboxylic acid, and (II) ≥ 1 layer of a thermoplastic resin having m.pt. at least 50 degrees C lower than that of the film (I). Film (I) has the following physical properties (1) a gas permeability constant measured at 30 degrees C of $\leq 9 \times 10^{-13}$ ml.cm/cm².sec.cmHg., (2) a planar orientation index $x + y / z - z$ of ≥ 0.025 (where x = the refractive index in the lengthwise direction of the film; y = the refractive index in the transverse direction of the film; and z = the refractive index in the thickness direction of the film), (3) a refraction residual value x-y of ≤ 0.045 , (4) a tensile strength of ≥ 10 kg./mm² in the lengthwise and transverse directions, (5) an elongation at break in the lengthwise and transverse directions of 30-150%, (6) a draw limit of ≥ 5 kg./mm² in the lengthwise and transverse directions, and (7) an elongation at the draw limit of 2-6% in the lengthwise and transverse directions.

Derwent Class: A17; A23; A92; A94; P42; P73

International Patent Class (Additional): B05D-007/04; B29D-007/02; B32B-007/02; B32B-027/08; C08J-001/36

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